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|---|-----------------|--|---|--|---|--------------------------|---|---------------------|-----------------------------|-------|----------|-------------------------------|---|
| FORM PTO-1449<br>(Modified)   |                 | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE   |   | ATTY. DOCKET NO.<br>K-1633             |   | SERIAL NO.<br>09/678,923 |   |                     |                             |       |          |                               |   |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT  |                 |  |   | APPLICANT<br>Kenneth G. DeRoche et al. |   |                          |   |                     |                             |       |          |                               |   |
| (Use several sheets if necessary)<br>(37 CFR 1.98(b))   |                 |  |   | FILING DATE<br>October 4, 2000         |   | GROUP<br>3722            |   |                     |                             |       |          |                               |   |
| U.S. PATENT DOCUMENTS   |                 |  |   |  |   |                          |   |                     |                             |       |          |                               |   |
| EXAMINER<br>INITIAL   | PATENT NUMBER   |  |   |  |   |                          |   | ISSUE<br>DATE       | PATENTEE                    | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |   |
|   | 4               | 1  | 8 | 2                                      | 5 | 8                        | 7 | 1/1980              | Striegl                     | 407   | 113      |                               |   |
|   | 4               | 7  | 1 | 4                                      | 3 | 8                        | 3 | 12/1987             | Shimomura et al.            | 407   | 42       |                               |   |
|   | 4               | 8  | 4 | 4                                      | 6 | 6                        | 6 | 7/1989              | Tsujimura et al.            | 407   | 34       |                               |   |
|   | 5               | 0  | 8 | 3                                      | 8 | 8                        | 7 | 1/1992              | Dotany                      | 407   | 59       |                               |   |
|   | 5               | 4  | 2 | 5                                      | 6 | 0                        | 3 | 6/1995              | Dutschke et al.             | 407   | 40       |                               |   |
|   | 9               | 1  | 3 | 6                                      | 4 | 4                        |   | 6/1999              | DeRoche et al.              | 407   | 42       |                               |   |
| FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION  |                 |  |   |  |   |                          |   |                     |                             |       |          |                               |   |
|   | DOCUMENT NUMBER |  |   |  |   |                          |   | PUBLICATION<br>DATE | COUNTRY OR<br>PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION<br>YES NO         |   |
|   | 3               | 7  | 2 | 7                                      | 9 | 6                        | 8 | 2/25/88             | Germany                     |       |          |                               | X |
|   | 0               | 2  | 7 | 8                                      | 3 | 8                        | 9 | 8/17/88             | EPO                         |       |          |                               | X |
|   | 9               | 3  | 1 | 7                                      | 8 | 2                        | 2 | 9/16/93             | WO                          |       |          |                               |   |
| OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)   |                 |  |   |  |   |                          |   |                     |                             |       |          |                               |   |
|   |                 | Kennametal Inc. Advertisement No. A99-7C "High-Temp Milling Innovations – Revolutionary Helical End Mill Increases Metal Removal Rates Up to 300%!" (1999)       |   |  |   |                          |   |                     |                             |       |          |                               |   |
|   |                 | Kennametal Inc. Advertisement No. A99-7B "Steel Milling Innovations – Revolutionary Helical End Mill Increases Metal Removal Rates Up to 300%!" (1999)           |   |  |   |                          |   |                     |                             |       |          |                               |   |
|   |                 | Kennametal Inc. Advertisement No. A99-7A "Stainless Steel Milling Innovations – Revolutionary Helical End Mill Increases Metal Removal Rates Up to 300%!" (1999) |   |  |   |                          |   |                     |                             |       |          |                               |   |
|   |                 |  |   |  |   |                          |   |                     |                             |       |          |                               |   |
| EXAMINER  |                 |  |   |  |   |                          |   |                     | DATE CONSIDERED             |       | 11/6/01  |                               |   |
| EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |  |   |  |   |                          |   |                     |                             |       |          |                               |   |

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